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# CLEMSON AGRICULTURAL COLLEGE,

(A. & M. COLLEGE.)

## SOUTH CAROLINA.



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W. L. McGee, . . . . . Agriculturist.  
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M. B. Hardin, . . . . . Chief Chemist.

---

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---

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## *Origin and Objects.*

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A convention of the farmers of South Carolina passed, in 1886, a resolution advocating the establishment of an agricultural college. The matter was given definite form by the action of the Hon. Thomas G. Clemson, son-in-law of John C. Calhoun, who died in 1888, leaving as a bequest to the State the old Calhoun homestead, Fort Hill, consisting of about 800 acres of land, and about \$80,000 in other securities for the purpose of establishing an agricultural college.

The Legislature passed an act which became a law in November, 1889, accepting the bequest. The college opened on July 6, 1893, with an enrollment during its first session of 446 students.

The object of the college, in conformity with the Acts of Congress and of the State Legislature, is to give practical instruction in agriculture and in the mechanic arts. To accomplish this object in its highest sense, careful instruction is given in the principles and in the application of the sciences bearing upon agriculture and mechanics; and to give the breadth and the culture necessary for a rounded education, a liberal course is provided in history, in economics, and in English.

It is considered of supreme importance that students should be taught, not only theoretic methods, but practical work in these methods. Young men need to learn to work. With this end in view, a certain amount of manual labor is required of all students. In addition to this, they are encouraged to do volunteer work, the remuneration from which enables many indigent young men to gain an education.



## PROVISIONAL COURSE OF STUDY.

### FRESHMAN CLASS.

There is but one course in the Freshman year. This leaves the selection of an Agricultural or Mechanical course open until the Sophomore year.

First Term.	Hours per week.	Second Term.	Hours per week.
Mathematics, . . . . .	5	Mathematics, . . . . .	5
English, . . . . .	5	English, . . . . .	5
Drawing, . . . . .	4	Drawing, . . . . .	4
History, . . . . .	2	History, . . . . .	2
Botany, . . . . .	3	Agriculture, . . . . .	3
Physics, . . . . .	3	Physics, . . . . .	3

### PRACTICAL WORK.

On the Farm . . . . .	2
In the Shops . . . . .	8

## CHEMICAL AND AGRICULTURAL COURSE.

### SOPHOMORE CLASS.

First Term.	Hours per week.	Second Term.	Hours per week.
Mathematics, . . . . .	3	Mathematics, . . . . .	3
English, . . . . .	3	English, . . . . .	3
History, . . . . .	2	History, . . . . .	2
Physics, . . . . .	3	Horticulture, . . . . .	2
Chemistry, . . . . .	3	Chemistry, . . . . .	3
Agriculture, . . . . .	3	Agriculture, . . . . .	3
Drawing, . . . . .	4	Drawing, . . . . .	4

### PRACTICAL WORK.

In Garden, Orchard and Vineyard, . . . . .	4
In Chemical Laboratory, . . . . .	4



## JUNIOR CLASS.

First Term.	Hours per week.	Second Term.	Hours per week.
English, . . . . .	3	English, . . . . .	3
History, . . . . .	2	History, . . . . .	2
Chemistry, . . . . .	2	Chemistry, . . . . .	2
Botany, . . . . .	4	Comp'tive Physiology	3
Entomology, . . . . .	2	Dairy Husbandry, . .	3
Agriculture, . . . . .	3	Military Tactics. . .	1
Military Tactics. . . .	1		

## PRACTICAL WORK.

On Farm, . . . . .	4	In Dairy, . . . . .	4
In Chemical Laboratory, 8		In Chemical Laboratory, 8	

## SENIOR CLASS.

First Term.	Hours per week.	Second Term.	Hours per week.
English, . . . . .	3	English, . . . . .	3
History, . . . . .	2	History, . . . . .	2
Chemistry, . . . . .	2	Chemistry, . . . . .	2
Agriculture, . . . . .	3	Botany, . . . . .	3
Horticulture, . . . . .	2	Horticulture, . . . . .	2
Military Science. . . .	1	Military Science, . . .	1

## PRACTICAL WORK.

On Farm, . . . . .	4	On Farm, . . . . .	4
In Chemical Laboratory, 8		In Chemical Laboratory, 8	

## MECHANICAL COURSE.

## SOPHOMORE CLASS.

First Term.	Hours per week.	Second Term.	Hours per week.
Mathematics, . . . . .	3	Mathematics, . . . . .	3
English, . . . . .	3	English, . . . . .	3
History, . . . . .	2	History, . . . . .	2
Physics, . . . . .	3	Physics, . . . . .	3
Chemistry, . . . . .	3	Chemistry, . . . . .	3
Drawing, . . . . .	4	Drawing, . . . . .	4
Dynamics, . . . . .	2	Dynamics, . . . . .	2



## PRACTICAL WORK.

Foundry Practice, . . . . .	8	Machine Shop, . . . . .	8
In Chemical Laboratory, 4		In Chemical Laboratory, 4	

## JUNIOR CLASS.

First Term.	Hours per week.	Second Term.	Hours per week.
Mathematics, . . . . .	3	Mathematics, . . . . .	4
English, . . . . .	3	English, . . . . .	3
History, . . . . .	2	History, . . . . .	2
Physics, . . . . .	2	Physics, . . . . .	2
Military Tactics, . . .	1	Military Tactics, . . .	1
Drawing, . . . . .	4	Drawing, . . . . .	4
Kinematics, . . . . .	5	Machine Designs, . .	3
		Thermodynamics, . .	3

## PRACTICAL WORK.

Machine Shop, . . . . .	8	General Shop-work, . . . .	8
Mechanical Laboratory, . 4		Mechanical Laboratory, . 4	

## SENIOR CLASS.

First Term.	Hours per week.	Second Term.	Hours per week.
Mathematics, . . . . .	3	Mathematics, . . . . .	3
English, . . . . .	3	English, . . . . .	3
History, . . . . .	2	History, . . . . .	3
Military Tactics, . . .	1	Military Tactics, . . .	1
Drawing, . . . . .	4	Drawing, . . . . .	4
Thermodynamics, . .	3	Steam Engine, etc., .	3
Engineering, . . . . .	3	Engineering, . . . . .	3

## PRACTICAL WORK.

General Shop-work, . . . .	8	Mechanical Laboratory, .	4
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AGRICULTURE.

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W. L. MCGEE, Associate Professor.

J. W. HART, Adjunct Professor.

L. A. CLINTON, Assistant Professor.

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The following topics are studied by lectures or text-books:

FRESHMAN CLASS: Second term, three hours a week.

Elementary principles underlying Agriculture with a brief course on farm live stock.

SOPHOMORE CLASS: First term, three hours a week.

Breeds of Live Stock with special reference to their adaptability to the South. Principles of breeding and selection.

SECOND TERM: three hours a week.

Soil water, surface and subsoil drains, manures, fertilizers, hay and pasture grasses, hay making, rotations, southern farm crops.

JUNIOR CLASS: First term, three hours a week.

Soil physics, implements, improved machinery, farm buildings, laying out of farm, history of agriculture.

SENIOR CLASS: First term, three hours a week.

Stock feeding, study of foods, compounding of rations, study of Experiment Station bulletins, general farm management.

AFTERNOON WORK: The students of the agricultural sections will be required to perform from two to four hours a week of practice work on the farm. This will be in direct line with the work of the class-room. It will consist of practice in the handling of tools and teams, preparation of soil and planting and cultivating, handling improved machinery, harvesting hay and the ordinary farm crops, the management of dairy stock and the manipulation of milk and butter and butter and cheese making. This labor will be alto-



gether educational and students will not be paid for it. In addition to this students of the agricultural department will be allowed to labor from six to ten hours a week on the farm, in the garden, at the barns or in the dairy. This outside labor will, as far as is practicable, be made an exemplification of the work of the class room. For this labor faithfully performed, students will be paid at the rate of eight cents an hour.

As a means of illustration, the department has a farm of some four hundred acres, a good equipment of implements, improved haying machinery, commodious barns for horses and cattle, six large silos, eighty cattle including three pure breeds, and a practical dairy in working order.

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## HORTICULTURE.

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J. F. C. DUPRE, Horticulturist.

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The work in this department is almost entirely practical. Theoretical instruction is given, twice weekly, in the second term of the Sophomore year, and during the larger part of the Senior year.

The work is sub-divided as follows :

Horticulture proper, including home gardening and truck farming ; pomology ; viticulture ; floriculture ; canning and experimental work.

The student is required to labor, and is thereby taught, by actual experience, the best methods of preparing, cultivating, and fertilizing the soil ; storing, shipping, and canning fruits and vegetables ; pruning and training trees and vines ; propagating by seeds, grafts, buds, layers and divisions. He is also given instructions in the use of hot beds, cold frames and mulching, together with the art of forcing, crossing and hybridizing. Throughout the entire course this instruction is supplemented by informal lectures on soils, fertilizers, how plants grow, how plants feed, etc.

The experimental garden, orchard and vineyard, together with the truck farm, green house and cannery, give ample means of illustration for this department.



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BOTANY.

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L. A. CLINTON, Instructor.

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## FRESHMAN CLASS.

The work during the year consists in the study of systematic structural botany, the text book used being Wood's Botanist and Florist. The object of this term's work is to enable students to become familiar with the structure and organs of the higher plants by careful study of the specimens themselves; to learn something of the system of classification; to acquire the habit of close and accurate observation, and to learn the names of some of our most common flowering plants.

## JUNIOR CLASS.

Four hours per week during the first term of the year will be devoted to the study of physiological botany. The work will consist largely in the use of the compound microscope in the examination of cell structure and in the preparation and study of slides by the student himself, the result of his observation being recorded by means of drawings and notes.

## • SENIOR CLASS.

Elective work will be given in botany during the second term of the year. This will consist in the study of cryptogams and fungi, special attention being given to a study of the diseases of plants. Opportunity will be given for the study of grasses and clovers, and of all the forage plants best adapted to this region.

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DAIRYING.

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J. W. HART, Instructor.

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Instruction in dairy science will be given in the second term of the Junior year.



Class room instruction, three hours per week ; work at stable and dairy building, two to four hours per week.

The course of instruction will include the following topics :

Dairy cattle in relation to agriculture ; the special dairy cow ; breeds of cattle ; selection of cows ; principles of breeding ; heredity ; prepotency ; atavism ; methods of breeding ; raising calves ; management of cattle ; the composition of feeding stuffs, and their combination into rations for the elaboration of milk ; recording, tabulating, comparing, and discussing results of feeding experiments ; milking ; milk-testing ; cream, and the methods of obtaining it from milk ; hand and power cream separators ; making and marketing butter and cheese ; disposing of the by-products of the dairy ; dairy-buildings ; diseases of cows ; pedigrees and herd-books.

The College herd, comprising about ninety head of pure-bred, grade and native cattle, will be used in teaching.

In the new, commodious and well-equipped dairy building, opportunity will be afforded students to learn how to make butter and cheese of the highest quality with utensils used in large or small dairies, creameries, and cheese factories.

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## MECHANICAL DEPARTMENT.

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S. TOMPKINS, Professor.

E. L. LITTON, Foreman of Wood-Shop.

T. W. WRIGHT, Foreman of Machine-Shop.

W. M. YAGER, Instructor in Mechanical Drawing.

R. T. V. BOWMAN, Instructor in Forge and Foundry Work.

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There is no work in this line in the Freshman year.

SOPHOMORE YEAR : Two hours per week throughout the entire session are devoted to the study of dynamics, illustrated by numerous practical problems in velocity, acceleration, force, mass, weight, &c.



JUNIOR YEAR: First term. Five hours per week are spent in the study of kinematics, and the elements of mechanism ; four hours additional per week are taken up in mechanical laboratory practice in measuring forces and testing materials.

SECOND TERM. Three hours per week are occupied in studying heat as the source of power in the steam engine, &c. Also three hours per week are given to the study of motive designs, and four hours per week to mechanical laboratory practice in testing and measuring.

SENIOR YEAR: First term. The study of heat and the steam engine is continued for three hours per week, and practical electricity is studied for the same length of time. Mechanical laboratory work occupies four hours.

SECOND TERM: Three hours per week are given to the theory of prime movers and the study of machinery of power transmission. The study of electricity is continued for three hours per week, and comprehends the theory and design of dynamo machinery and electrical apparatus for lighting, heating, and power purposes. Mechanical laboratory work occupies four hours per week.

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### SHOP PRACTICE.

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FRESHMAN YEAR: All Freshmen take shop practice eight hours per week throughout the entire session. This much of the work being common to both the Agricultural and Mechanical courses and being all that is given in the former course, it is devoted especially to such work as is deemed particularly useful in a course in Agriculture and at the same time essential for mechanical students. Five months are devoted to carpentry and the remainder of the session to blacksmithing.

SOPHOMORE YEAR: First term. Eight hours per week are devoted to foundry work, the students being given



practice in making moulds, charging the cupola, taking off a heat, &c.

SECOND TERM. Machine shop practice is given for eight hours per week throughout this term, comprising practice in chipping, filing, scraping, drilling, turning, boring, planing, shaping, and milling.

JUNIOR YEAR: First term. Machine shop practice continues for eight hours per week up to the middle of the session.

SECOND TERM. With the beginning of this term the shop work becomes elective (subject to the approval of the instructors) and is continued thus for eight hours per week until the end of the session. During this period the students are expected to build complete machines from original designs, and to become acquainted with manufacturing methods.

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## CHEMISTRY.

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M. B. HARDIN, Professor.

R. N. BRACKETT, Associate Professor.

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SOPHOMORE CLASS : Three hours a week.

General Chemistry : Inorganic Chemistry, and the leading facts and principles of Organic Chemistry. The laboratory practice, four hours a week, consists in introductory work, and Qualitative Analysis.

Text Books : Roscoe's Elementary Chemistry.

Jones's Junior Course of Practical Chemistry.

JUNIOR CLASS : Two hours a week.

Industrial Chemistry : Air, water, food, clothing, building materials, glass, porcelain, etc., and the metallurgy of gold, silver, copper, iron, etc. The laboratory practice, eight hours per week, and optional all day Saturdays, consists in qualitative and quantitative analysis, and assaying.



Text Books : Wagner's Chemical Technology, Jones's Junior Course of Practical Chemistry, Fresenius' Qualitative Analysis, Fresenius' Quantitative Analysis, Brown's Assaying.

SENIOR CLASS : Two hours a week.

Agricultural Chemistry : The composition of plants, the sources of plant food, the composition of soils, the improvement of soils by chemical means, the composition and manufacture of fertilizers, the composition of feeding stuffs, and the products of the dairy. The laboratory practice consists in the quantitative analysis of waters, fertilizers, ashes of plants, soils, cattle foods, dairy products, etc. Hours are the same as in the Junior class.

Text Books : Johnston's Elements of Agricultural Chemistry, and Bulletins of United States Department of Agriculture containing methods of the Association of Official Agricultural Chemists.

Books of reference : Deherain's *Traite de Chimie Agricole*, Storer's *Agriculture in some of its Relations with Chemistry*, and Wiley's *Agricultural Analysis*.

The chemical library is supplied with valuable works of reference on theoretical and applied chemistry, and with American and foreign journals.

The Sophomore course is required of all students ; the other courses are required of students in Chemistry and Agriculture only.

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## PHYSICS.

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C. W. WELCH, Professor.

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The study of Physics begins in the first term of the Freshman year, in order to meet the requirements of the Agricultural and Mechanical courses. This makes the treatment of the subject quite elementary, and necessitates the use of mathematics as little as possible.

The department is sufficiently well equipped to make the experiments which lead to the discovery of the properties



and laws of matter, and to some extent, to make a quantitative treatment of them.

Connected with the lecture room is a room for the safe keeping of all apparatus, and adjoining the latter is the students' laboratory.

The "Laboratory Method" is used both in the elementary and the advanced course.

The advanced course is required of all students who pursue the work of the Mechanical course. The advanced work is begun in the second term of the Sophomore year.

As full mathematical treatment of the subject as is necessary will be given. The laboratory work will be especially emphasized. The course in Physics ends with the Junior year.

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## MATHEMATICS.

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H. A. STRODE, Professor.

J. G. CLINKSCALES, Associate Professor.

A. SHANKLIN, Tutor.

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FRESHMAN CLASS : Five hours a week.

Arithmetic and the elements of Algebra are completed in the preparatory course, and the first term of the Freshman year is devoted to the study of Wentworth's Complete Algebra. During the second term, Wentworth's Plane Geometry is studied.

SOPHOMORE CLASS : Three hours a week.

Algebra is completed, being supplemented by the professor's notes on Higher Algebra ; the class is also carried through the remainder of Plane Geometry and through Solid Geometry. Wentworth's Plane Trigonometry and Surveying are completed during the year.

JUNIOR CLASS : Three hours a week.

Wentworth's Spherical Trigonometry and Analytical Geometry are studied throughout the Junior year.



SENIOR CLASS : Three hours a week.

This class will devote its time to the study of the Calculus.

The Mathematical course for Agricultural students stops at the close of the Sophomore year. The course for Mechanical students will be continued through the Junior and the Senior years to prepare for the highest demands of the technological courses.

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### ENGLISH.

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C. M. FURMAN, Professor.

T. P. HARRISON, Associate Professor.

W. F. MONCREIFF, Tutor.

E. M. BLYTHE, Tutor.

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The purpose of the course in English is to enable the student to acquire the power of correct and terse expression, and enable him to read with appreciation the best literature of the language.

A thorough grounding in English grammar and elementary composition will be furnished in the sub-collegiate grades.

FRESHMAN CLASS : Five hours a week.

Lockwood's Lessons in English ; Strang's Exercises ; Clark's Practical Rhetoric ; reading from Irving and Scott ; exercises in composition.

SOPHOMORE CLASS : Three hours a week.

Genung's Rhetoric ; studies in Macaulay, Lowell, and Addison ; essays.

JUNIOR CLASS : Three hours a week.

Pancoast's English Literature ; studies in Froude, Thackeray, Carlyle, and Ruskin ; essays.

SENIOR CLASS : Three hours a week.

First term : Study of Shakespeare ; Doelen's Primer, and the reading of two plays.



Second term : English poetry ; Minto's Characteristics of English Poets, with readings.

Orations during the entire year.

Parallel readings are required throughout the course.

## HISTORY.

W. S. MORRISON, Professor.

FRESHMAN CLASS : Two hours a week.

First term : Weber's History of South Carolina.

Second term : Tilden's Commercial Geography.

SOPHOMORE CLASS : Two hours a week.

First term : Constitution and Government of the United States.

Second term : True and Dickinson's Our Republic.

Myer's General History (begun).

JUNIOR CLASS : Two hours a week.

Myer's General History (completed).

Comparative View of Governments.

SENIOR CLASS : Two hours a week.

Economics.

Walker's Political Economy (briefer course.)

## DRAWING.

WILLIAMS WELCH, Instructor.

W. M. YAGER, Instructor.

FRESHMAN CLASS.

AGRICULTURAL AND MECHANICAL STUDENTS.

First term : Drawing free-hand in perspective, geometrical forms, details of constructions and such objects as are made or used in the shop or laboratory. Shading.



Second term : Drawing free-hand from models and natural objects placed before the class. Lettering.

#### AGRICULTURAL STUDENTS.

##### SOPHOMORE CLASS.

First term : Drawing free-hand from natural objects, such as plants, flowers, fruits, insects, etc., and objects seen under a strong microscope. Combining colors and some practice in coloring from natural objects with water-colors.

Second term : Architectural Drawing. Making complete working drawings, and writing specifications for a dwelling, barn, or other building. Plotting surveys made by the class.

#### MECHANICAL STUDENTS.

##### SOPHOMORE CLASS.

First term : Lectures on the selection, use, and care of drawing instruments and drawing materials. Drawing accurately in ink practical geometrical problems relating to lines, angles, circles, tangents, polygons, and such curves as the ellipse, involute, cycloid, helix, etc. Projections, intersections, and development of the surface of solids. Isometric Perspective.

Second term : Lectures on the method of making mechanical drawings, copying a drawing, and making complete working drawings of pieces of machinery from working models. Tracing and making blue prints.

##### JUNIOR CLASS.

Both terms : Designing and making complete working drawings of parts of machines and structures in accordance with the principles learned in the theoretical course of Applied Mechanics.

##### SENIOR CLASS.

Both terms : Designing and making detailed working drawings and full specifications of special machines and structures in accordance with the principles learned in the course in Mechanical Engineering.

Four hours a week are required throughout the course.



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MILITARY DEPARTMENT.

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COMMANDANT, AND COLONEL OF CADET REGIMENT—Lieutenant T. Q. Donaldson, Jr., 7th, U. S. Cavalry.

MAJORS—E. M. Blythe and A. Shanklin.

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For the purpose of instruction and discipline the corps of cadets has been given the regimental organization. The Commandant of Cadets is the Colonel, and the two battalions are commanded respectively by Majors Blythe and Shanklin. Each of the two battalions consists of three companies. The cadets in barracks are under military discipline all the time, day cadets while actually present at the College.

The instruction of cadets is both theoretical and practical, and embraces the infantry and artillery drill regulations, the manual of guard duty, and lectures on the art and science of war.

In addition to the special regulations of the military department, cadets are subject to the following general regulations.

Cadets will at all times be respectful in their bearing to the professors and other officers of the College.

The practice known as hazing is positively forbidden, and any cadet indulging in this practice will be expelled from the College.

Cadets are positively forbidden to use or to have in their possession intoxicating liquors of any description.

The use of tobacco by cadets, in any form, is prohibited. Profanity is positively forbidden.

Cards and all games of chance are positively forbidden.

All combinations of cadets for the purpose of conveying censure or praise to one of their number is prohibited. Also, all combinations to defeat the purpose of any regulation of the College.

Fighting is positively forbidden. If any cadet shall consider himself wronged by another or by a professor or by an officer, he is to complain thereof in writing to the president, who will examine into the complaint and take such measures for redressing the wrong as he may deem proper.



Cadets are forbidden to keep any arms in their possession not issued by the proper authority.

No cadet will take food from the mess-hall without permission from the president.

Any cadet receiving 100 demerits for any term of five months will be dismissed.

Any cadet absent from barracks at night without proper authority will be dismissed.

#### INSTRUCTION.

SENIOR CLASS : At least one hour per week theoretical instruction and at least three hours per week practical.

JUNIOR CLASS : Same as Senior.

SOPHOMORE : At least three hours per week practical instruction.

FRESHMAN, AND CADETS OF FITTING SCHOOL : Same as Sophomores.

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#### FITTING SCHOOL.

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For the benefit of those not prepared to enter the College classes, a course of study is provided, in which there is careful drill in the elements of English, Mathematics, Geography, and History. The following is an outline of the work.

ENGLISH: Longman's Grammar; Longman's Composition; reading of "Seven American Classics," "Seven British Classics," and Kingley's Greek Heroes; Whitney-Lockwood Grammar; frequent written exercises.

MATHEMATICS: Wentworth's Grammar-School Arithmetic; Wentworth's Easy Steps in Algebra.

HISTORY AND GEOGRAPHY: Appleton's Standard Higher Geography (edition for the Virginias and the Carolinas); Eggleston's History of the United States and Its People.



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SOUTH CAROLINA EXPERIMENT STATION.

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E. B. CRAIGHEAD, Director.  
W. L. MCGEE, Agriculturist.  
J. F. C. DUPRE, Horticulturist.  
M. B. HARDIN, Chief Chemist.  
C. W. SIMS, Assistant Chemist.  
F. S. SHIVER, Assistant Chemist.  
J. W. HART, Stock and Dairy.  
L. A. CLINTON, Assistant Agriculturist.  
JNO. N. HOOK, Secretary.

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Under the Act of Congress approved March 2, 1887, the South Carolina Experiment Station was organized in January, 1888, at Columbia, as a department of the University of South Carolina. It was removed to Fort Hill in 1890 and reorganized as a department of Clemson Agricultural College.

The principal lines of work heretofore have been the analysis and control of fertilizers, experiments with fertilizers, and with field and garden crops.

Under the guidance of the Station officers, the students are expected to familiarize themselves with the different lines of investigation being carried on, and thus to have their interest in agricultural topics awakened, their powers of observation strengthened, and to learn to tabulate and compare results of experiments conducted and to draw conclusions therefrom.

Aside from the direct information gained, the habits of systematic observation formed will, in after years, be of invaluable assistance to students in solving for themselves the problems of agriculture.

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BUILDINGS.

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The principal academic building contains eighteen recitation rooms, a library, offices for the president and for the



secretary and treasurer, and halls for the students' literary societies.

Adjoining the main building is a hall capable of seating eight hundred persons, used for religious services and as an assembly room.

A three story brick building, containing one hundred and sixty rooms, constitutes barracks for the cadets, and in addition to rooms for a dormitory, it has a mess-hall one hundred and thirty-four by forty-four feet in size. This building is heated by steam, lighted by electricity, and has an abundant supply of pure fresh water.

The rooms in the barracks are each furnished with single width folding iron cots, mattresses, table, chairs, wardrobes, buckets, pan, cup, and mirror.

Adjacent to the mess-hall is the kitchen, fifty feet by thirty-seven feet, equipped with all the modern appliances for culinary purposes.

The hospital, located apart from the other college buildings, is of wood and was especially constructed for its purposes. It is connected with the water works and with the electric light plant, and it has a thorough sewerage system.

The mechanical building is a large brick structure covered with slate and ornamented with towers and gables. It is composed of one main three-story building with three wings, one of which is two stories high, the other two being one story. The offices, drawing, and lecture rooms are ceiled and finished up, some in natural woods, others in suitably colored paints. The shops have a rougher finish more suitable for their several purposes. The different shop rooms are laid on a liberal scale and are well adapted to the work of instruction in the mechanic arts. The wood shop comprises an office and four rooms with a total floor space of 9,200 square feet. The forging shop and foundry are in one room with 2,500 square feet. The machine shop is composed of two rooms and an office with floor area of 8,300 square feet. The tool and store room occupies 1,450 square feet. The boiler, engine and dynamo rooms 2,300 square feet. The office 500 square feet. The lecture and drawing rooms 3,400 square feet. A total

9



area in the entire building of 27,650 square feet. It is equipped with modern machinery and appliances for instruction in mechanic arts, and the outfit is being constantly increased as occasion demands.

The chemical laboratory is of brick, fifty by eighty feet, two stories high. It is roofed with slate and finished inside with southern pine.

On the first floor there are eight rooms. Five of these are appropriated for State Analytical and Experiment Station work, and are supplied with all necessary chemical and optical apparatus. Of the other rooms on this floor, one is a balance room for students, one an office, and the third is fitted up as a laboratory for advanced students. The basement is used for assaying and for storage.

On the second floor there are five rooms. The qualitative laboratory, which is the largest of these, is thirty-six by forty-eight feet, with a pitch of seventeen feet in the clear. It will accommodate sixty students at a time, and is provided with hoods for carrying off noxious gases, convenient working tables, water, gas, and all necessary appliances for experimental work. The other rooms on this floor are the lecture room, professor's laboratory, an office, and a room for gas analysis.

A wooden building containing offices, a library, and storage and seed rooms, is provided for the use of the officers of the Experiment Station.

The college is provided with two barns. One, thirty-six feet by eighty feet, for the teams, wagons, and the storage of forage. Of the other, one section, one hundred and eighty-four feet by thirty feet, accommodates eighty head of cattle; and the second, forty by seventy-two feet, contains six silos with an aggregate capacity of four hundred tons.

The dairy building, especially constructed for dairy purposes, is equipped with a twelve horse-power boiler, an eight horse-power engine, and apparatus necessary for butter and cheese-making by most approved methods.

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The horticultural department is provided with a greenhouse, a canning house, and a packing house with brick basement.

The laundry is a brick building, specially constructed and fitted with the improved machinery of a modern steam laundry.

A hotel, beautifully located, over-looking the campus and college buildings, has been erected. It will be open for guests by the first of March, 1895.

Nine two-story brick buildings, nine six-room cottages, and sixteen smaller houses furnish residences for professors and other employees.

The former residence of John C. Calhoun is kept, in accordance with the provisions of Mr. Clemson's will, as a place for preserving the relics of Calhoun, and for the fine collection of oil paintings left to the College by Mr. Clemson.

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### WATER SUPPLY,

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There are two sources from which water is obtained. The general supply is collected through iron pipes into a reservoir, from which it is pumped into a water-tower eighty feet high, whence it is distributed.

Drinking water is pumped, in a continuous stream, from a bold spring directly into the barracks: it is by this means furnished fresh, pure, and cold.

The waste water is used for flushing the sewer-pipes, which empty into the Seneca river, a half-mile away.

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### GENÉRAL STATEMENTS.

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All students are required to board in the institution, except those who live with their parents near enough to attend from their homes.



The government is military, and each student is required to purchase the prescribed uniform.

Students may provide themselves with such work clothes as they desire.

Each student will be required to bring with him four sheets, two blankets, a comfort, six towels, one pillow, and two pillow cases.

#### EXPENSES.

The school year is divided into four quarters of two and a half months each. Expenses per quarter are as follows:

Board (including fuel, lights, &c.,) . . .	\$15 00
Washing, . . . . .	1 25
Medical Fee . . . . .	1 25
Incidental Fee . . . . .	50

\$18 00

This amount will be required *invariably in advance* and no student will be permitted to enter any class until it is settled. In addition to this, new students are required to purchase two uniforms, cost \$28.40, for which measure will not be taken until money is deposited with the Treasurer. Books and stationery may be bought of the College at cost for cash. Students will not be credited for these articles. The annual cost of books and stationery per student varies from \$6.00 to \$10.00.

Agricultural students may work forty hours a month at 8 cents an hour, and may thus make \$32.00 a year, or \$8.00 a quarter.

Preparatory students have the same privilege.

Mechanical students will be paid only the money value of their work—never over 8 cents an hour.

No reduction in board will be made for students who come in after the opening of a quarter nor for those who go home before the close. The only exception to this rule will be made in favor of students who, for satisfactory reasons, are compelled to be absent for a period of one month or more.

#### REQUIREMENTS FOR ADMISSION.

The third session of the College will begin on Thursday, February 21, 1895.



Students under fifteen years of age are not to be admitted, except where two brothers apply, one being over fifteen, the other not under fourteen.

Thorough proficiency in Arithmetic, Elementary Algebra, English Grammar, Geography, and History of the United States is required for admission into the Freshman Class. A preparatory course is provided for students not sufficiently advanced for the College classes. The text-books recommended to those preparing to enter the Freshman Class are Wentworth's Grammar-School Arithmetic, Wentworth's First Steps in Algebra (used in the preparatory course), or Robinson's Elementary Algebra, Whitney-Lockwood English Grammar, Appleton's Higher Geography, Eggleston's History of the United States and Its People.

It is of utmost importance that applicants be present on the day of the opening.

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#### PHYSICAL REQUIREMENTS AND MEDICAL ATTENTION.

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A. M. REDFEARN, M. D., SURGEON.

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All candidates for matriculation are subject to a medical examination, and will be excluded from the College on account of consumption, or any other contagious or communicable disease, or any permanent disability for manual labor or military duty. All cases of serious sickness are transferred immediately to the hospital for treatment, the parents of such cadets being notified by letter, and in event of sudden or alarming illness, by telegraph.

The hospital has a capacity of twenty beds and its facilities are fairly complete. The hospital staff, consisting of the matron and two nurses, is amply sufficient to insure good and personal attention to each patient.

#### LIBRARY.

A series of rooms in the main building is specially constructed for use as a library. About 600 volumes of standard English literature, and 250 on scientific agriculture are already available for students. An appropriation of \$1,000



has been made for the purchase of additional books, and it is expected that an equal appropriation will be made each year until a well selected library is obtained.

## READING ROOM.

The reading room, to which Cadets have access, receives regularly the following newspapers and periodicals:

The daily papers of the State;  
The Atlanta Constitution;  
The New York Times;  
Many county papers are on file;  
American Agriculturist;  
American Journal of Politics;  
Century;  
Cosmopolitan;  
Edinburgh Review;  
Educational Review;  
Evening Post (N. Y.-Saturday edition);  
Fortnightly Review,  
Forum;  
Good Roads;  
Harper's Monthly;  
Harper's Weekly;  
Illustrated American;  
Illustrated London News;  
Judge;  
Life;  
Magazine of American History;  
Munsey's Magazine;  
Nation;  
North American Review;  
Overland Monthly;  
Popular Science Monthly;  
Public Opinion;  
Puck;  
Review of Reviews;  
Scientific American and Supplement;  
Scribner's Magazine;  
Short Stories;  
Southern Cultivator;  
St. Nicholas;  
Youth's Companion.



## LITERARY SOCIETIES.

The students have organized three literary societies: the Calhoun, the Palmetto, and the Columbian.

The training to be gained from the societies is valuable, and all students are encouraged to join one of them. Public celebrations, at which there are debates, orations, and declamations by the students, are held during the year.

## RELIGIOUS SERVICES.

During the past year there has been preaching in Memorial Hall on Sunday morning by ministers of the different denominations. All students attend these services. In addition to these a Sunday School, at which attendance is voluntary, meets every Sunday.

Chapel services are conducted every morning by the professors in turn.

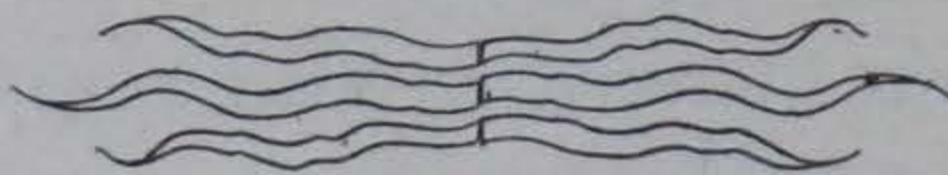
A Christian Association of Cadets has been organized.

## LOCATION.

The College is one mile from Calhoun, a station on the Southern Railway, four miles from Pendleton, on the C. & G. R. R., and two miles from Cherry's Crossing, a flag station on the C. & G. R. R.

Students from the lower part of the State are advised to buy their tickets and have their trunks checked to Cherry's Crossing. Wagons will meet the trains there on the day of the opening to transfer baggage to the College.

All applications for information should be addressed to President E. B. Craighead, Clemson College, S. C.





# Register of Students.



## Sophomore Class.

### AGRICULTURAL SECTION.

Name.	County.
Blain, J. M .....	Chester.
Boulware, G. P .....	Newberry.
Bowers, V. P .....	Hampton.
Breazeale, J. F.....	Anderson.
Briggs, J. L.....	Aiken.
Brown, E. P.....	Spartanburg.
Busch, H.....	Aiken.
Dean, L. E.....	Anderson.
Doar, B .....	Georgetown.
Dunlap, H. M .....	York.
Dunlap, W. M .....	York.
Elliott, W. R.....	Fairfield.
Everett, E. H.....	Marlboro.
Fair, J. S. ....	Newberry.
Farley, W. C.....	Spartanburg.
Felder, W. L.....	Orangeburg.
Fitts, W. R.....	Hampton.
Folk, J. F.....	Colleton.
Ford, J. B.....	York.
Furman, C. M.....	Oconee.



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Gooding, P. H .....	Hampton.
Gray, J. W.....	Greenville.
Hamilton, R. G.....	Fairfield.
Hanvey, J. T .....	Abbeville.
Harris, Y. A.....	Edgefield.
Holloway, J. G.....	Abbeville.
Hope, J. H.....	Lexington.
Johnson, B. W.....	Spartanburg.
Langley, C. P.....	Charleston.
Leitzsey, C. L.....	Newberry.
Maner, J. O.....	Barnwell.
McCluney, F .....	Union.
Moore, J. H.....	Abbeville.
Moorman, T. S.....	Richland.
Padget, J. H.....	Edgefield.
Poole, J. T., Jr.....	Laurens.
Redfearn, R. A....	Chesterfield.
Robertson, B. F.....	Pickens.
Shanklin, J. A.....	Anderson.
Sifley, M. L.....	Spartanburg.
Sloan, B. F.....	Oconee.
Smith, D. L.....	Berkeley.
Smith, J. M.....	Berkeley.
Snider, C. H .....	Orangeburg.
Steele, G. G.....	Fairfield.
Tillman, B. R., Jr .....	Richland.
Tompkins, F. G.....	Richland.
Triplett, J. G.....	Chester.
Turnipseed, B. R.....	Richland.
Werts, L. A.....	Edgefield.
Wiggins, J. B.....	Berkeley.
Yeldell, G. S.....	Edgefield.
Young, R. D.....	Laurens.

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### MECHANICAL SECTION.

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Name.	County.
Aull, B. M.....	Newberry.
Bowen, J. T.....	Pickens.
Bradley, J. T.....	Abbeville.
Brown, C. A..	Anderson.



Bryant, F. L.....	Spartanburg.
Calhoun, P. N.....	Ozonee.
Carpenter, W. H.....	Anderson.
Carter, S. T.....	Edgefield.
Chreitzberg, A. M.....	Charleston.
Cliff, H. G.....	Charleston.
Cothran, T. W.....	Abbeville.
Culler, F. I.....	Orangeburg.
Dowling, D.....	Barnwell.
Dunn, A. F.....	Abbeville.
Earle, E. P.....	Ocone.
Fitts, J. L.....	Hampton.
Folger, E.....	Pickens.
Hart, G. W.....	Orangeburg.
Hoffman, W. A.....	Orangeburg.
Hunter, J. E.....	Newberry.
Klugh, W. W.....	Abbeville.
Langley, P. G.....	Charleston.
Lee, R. E.....	Abbeville.
Mauldin, I. M.....	Pickens.
Miller, W. L.....	Greenville.
Napier, C. D.....	Marlboro.
Parrott, S. F.....	Darlington.
Pegues, O. M.....	Marlboro.
Rawl, H. J.....	Lexington.
Richardson, E. L.....	Ocone.
Sease, L. A.....	Lexington.
Simpson, J. G.....	Anderson.
Speck, O. F.....	Newberry.
Stribling, P. O.....	Ocone.
Taylor, F. E.....	Anderson.
Thomson, D. P.....	Spartanburg.
Tindal, A. J.....	Richland.
Tuten, T. H.....	Hampton.
Wardlaw, W. W.....	Abbeville.
Welch, R. H.....	Newberry.





## Freshman Class.

### AGRICULTURAL SECTION.

Name.	County.
Addison, J. L.....	Greenville.
Allen, W. R.....	Spartanburg.
Anderson, W. R.....	Laurens.
Barnes, J. F.....	Anderson.
Black, R. E.....	Colleton.
Blackwell, R. S.....	Edgefield.
Blain, W. A.....	Chester.
Blankenship, E. M....	York.
Boggs, W. B.....	Anderson.
Brice, S. M.....	Fairfield.
Brice, L. M.....	Fairfield.
Brown, J. W.....	Spartanburg.
Browne, D. O.....	Anderson.
Browning, S. E.....	Berkeley.
Bryan, A. B.....	Barnwell.
Chamblee, J. R.....	Anderson.
Chappell, O.....	Richland.
Charles, G. H.....	Laurens.
Collins, R. W.....	Spartanburg.
Copeland, J. M.....	Laurens.
Cothran, F. H.....	Abbeville.
Crawford, B. S.....	Anderson.
Crouch, W. B.....	Newberry.
Deal, M. H.....	Edgefield.
Duckett, J. O.....	Abbeville.
Duncan, J. C.....	Newberry.
Eaddy, A. G.....	Williamsburg.
Edwards, J. E.....	Abbeville.
Fletcher, E. R.....	Marlboro.
Garris, J. S.....	Colleton.
Gibert, J. B.....	Abbeville.
Grubbs, M. W.....	Anderson.
Hallum, R. T.....	Pickens.



Hankinson, L. H.....	Aiken.
Hanvey, G. A.....	Abbeville.
Hare, A. D.....	Berkeley.
Hayden, T. J.....	Orangeburg.
Henderson, W. E.....	Abbeville.
Henry, D. H.....	Abbeville.
Hicklin, A.....	York.
Higgins, M. M.....	Anderson.
Hunter, B. A.....	Abbeville.
Hunter, W.....	Pickens.
Jeffares, J. W.....	Fairfield.
Jefferies, H. E.....	Union.
Keith, B. C.....	Greenville.
Kelly, B. F.....	Sumter.
Kenyon, W. A.....	Charleston.
Lake, M. R.....	Newberry.
Lawson, W. B.....	Abbeville.
Leach, J. E.....	Greenville.
Miley, G. W.....	Barnwell.
Millar, C. B.....	Charleston.
Miller, E. J.....	Chesterfield.
Miller, J. A.....	Chesterfield.
Minus, J. P., Jr.....	Colleton.
Moore, P. W.....	Greenville.
McFadden, W. H.....	York.
Nash, M. L.....	Greenville.
Nichols, R. W.....	Laurens.
Nixon, J. P.....	Edgefield.
Norris, E. B.....	Berkeley.
Parks, R. J.....	Edgefield.
Parks, W. P.....	Edgefield.
Pearman, B. J.....	Anderson.
Pegues, C. K.....	Marlboro.
Pickett, J. E.....	Oconee.
Pinson, J. A.....	Anderson.
Pitts, J. W.....	Edgefield.
Rampey, W. C.....	Abbeville.
Reynolds, T. W.....	Darlington.
Reynolds, W. S.....	Darlington.
Riggins, W. G.....	Colleton.
Roberts, J. H.....	Lexington.
Robinson, T. C.....	York.
Ruff, T. D.....	Fairfield.
Scurry, J. B.....	Newberry.



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Self, J. C.....	Edgefield.
Shaw, T. C.....	Anderson.
Smith, J. B.....	Orangeburg.
Smith, L. J.....	Anderson.
Spencer, R. L.....	York.
Spivey, J. G.....	Georgetown.
Sprott, J.....	Clarendon.
Stackhouse, D. S.....	Marion.
Stubbs, C. H.....	Sumter.
Suber, G. H.....	Newberry.
Taylor, I. B.....	Abbeville.
Teague, L. S.....	Laurens.
Thomas, H. J.....	Union.
Walter, W.....	Orangeburg.
Waters, W.....	Spartanburg.
Westcott, W. R.....	Orangeburg.
Wicker, R. D.....	Newberry.
Wilson, A. P.....	Chesterfield.
Wofford, W. S.....	Union.

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### MECHANICAL SECTION.

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Name.	County.
Belcher, R. E.....	Anderson.
Bethea, J. F.....	Marion.
Bosworth, H. L.....	Anderson.
Boyne, J. F.....	Charleston.
Breazeale, B. B.....	Anderson.
Brock, W. T.....	Chesterfield.
Brogdon, J. E.....	Sumter.
Bruce, J. C.....	Marlboro.
Burriss, C.....	Anderson.
Burriss, F. E.....	Anderson.
Burriss, W. H.....	Anderson.
Caldwell, A. P.....	Spartanburg.
Chandler, A. E.....	Florence.
Colson, G. E.....	Charleston.
Crouch, J. R.....	Orangeburg.
Culler, H. H.....	Orangeburg.
Dowling, C. B.....	Lexington.
Dreher, L. S.....	Lexington.
DuPre, E. M.....	Richland.



Edwards, R.....	Orangeburg.
Ellerbe, W. T.....	Horry.
Epting, H. O.....	Anderson.
EsDorn, C. H.....	Charleston.
Evans, J. G.....	Abbeville.
Fair, R. P.....	Newberry.
Fishburne, S. B.....	Barnwell.
Foster, A. F.....	Spartanburg.
Fuller, W. P.....	Laurens.
Garner, F. M.....	Darlington.
Gaston, J. H.....	Aiken.
Gaston, W. H.....	Aiken.
Gentry, C. W.....	Spartanburg.
Glenn, F. M.....	Anderson.
Glenn, W. H.....	Richland.
Gourdin, T. B.....	Williamsburg.
Hammett, H. J.....	Barnwell.
Hoffmeyer, H. F. L.....	Florence.
Hogg, W. T.....	Anderson.
Hook, J. H.....	Orangeburg.
Inman, J. R.....	Georgetown.
Jennings, H. G.....	Charleston.
Jennings, M. B.....	Fairfield.
Johnson, J. D.....	Orangeburg.
Jones, F. N.....	Colleton.
Jones, L.....	Oconee.
Jordan, H. S.....	Aiken.
Kirkland, J. M.....	Barnwell.
Knox, L.....	Oconee.
Lawson, F. W.....	Abbeville.
Lemacks, J. C.....	Colleton.
Little, C. C.....	Laurens.
Long, W. D.....	Lexington.
Lorenz, J. H.....	Aiken.
Mahaffey, C. B.....	Anderson.
Major, J. A.....	Abbeville.
Mauldin, C. M.....	Greenville.
Maxwell, J. D.....	Anderson.
Michel, M. S.....	Charleston.
Moore, L. B.....	Abbeville.
Moore, M. D.....	Greenville.
Moorman, R. C.....	Richland.
McComb, R. S.....	Abbeville.
McCrary, J. A.....	Anderson.



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McDavid, A. W.....	Greenville.
Nicholson, C. S.....	Kershaw.
O'Neal, L. A.....	Anderson.
Parrott, J.....	Darlington.
Peterkin, W. G.....	Orangburg.
Quarles, J. P.....	Abbeville.
*Rembert, E. M.....	Colleton.
Rhodes, W. M.....	Darlington.
Rogers, D. F.....	Marion.
Rollins, R. C.....	Florence.
Rosborough, E. E.....	Fairfield.
Ryan, B. J.....	Edgefield.
Sample, A. B.....	Abbeville.
Sawyer, G. L.....	Aiken.
Seaborn, W. E.....	Oconee.
Seigler, C. H.....	Aiken.
Smith, A. P.....	Chester.
Smith, C. L.....	Anderson.
Smith, E. E.....	Richland.
Smith, J. B.....	Marion.
Smith, R. S.....	Marion.
Stoney, J. G.....	Barnwell.
Swygert, G. H.....	Lexington.
Talbert, A. D.....	Edgefield.
Taylor, J. E.....	Charleston.
Thomas, H. D.....	Sumter.
Turnipseed, L. A.....	Richland.
Vance, Y. H.....	Laurens.
Vogel, T. R.....	Barnwell.
Walker, P. F.....	Greenville.
Walker, T. J.....	Barnwell.
Ware, E. W.....	Greenville.
Wells, M. M.....	Abbeville.
Wise, J. T.....	Aiken.
Woodside, R. I.....	Greenville.
Wright, W. P.....	Laurens.

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\* Deceased.



## Higher Preparatory Class.

Name.	County.
Adams, E. C .....	Richland.
Adams, H.....	Abbeville.
Anderson, E. T.....	Pickens.
Anthony, W. H .....	Pickens.
Austin, J. R .....	Anderson.
Avinger, W. S. D .....	Berkeley.
Ayers, L. W .....	Orangeburg.
Baskin, J. C.....	Sumter.
Bass, R. E.....	Marion.
Black, O. D .....	Abbeville.
Blackman, E. F.....	Lancaster.
Blackwell, W. G .....	Edgefield.
Blakeley, W. R .....	Greenville.
Bobo, W. N.....	Union.
Boone, M. H.....	Orangeburg.
Bourne, D. N.....	Georgetown.
Bradford, R. D.....	Sumter.
Briggs, T. H.....	Edgefield.
Brockman, T. W.....	Spartanburg.
Bull, J. V.....	Orangeburg.
Burnett, R. A.....	Spartanburg.
Caldwell, J. G.....	Orangeburg.
Calhoun, J. S.....	Barnwell.
Carson, B. G.....	Berkeley.
Carter, F. E.....	Aiken.
Chase, C. C.....	Spartanburg.
Cheatham, J. C.....	Abbeville.
Chreitzberg, C. K.....	Charleston.
Clark, J. C.....	Fairfield.
Clayton, W. S.....	Barnwell.
Clinkscates, R. W .....	Abbeville.
Cobb, E. E.....	Abbeville.
Coleman, R. W.....	Edgefield.
Copeland, J. I.....	Laurens.
Copes, H. E.....	Orangeburg.
Counts, C. H .....	Newberry.
Cross, B. B.....	York.



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Crouch, S.....	Newberry.
Dannelly, G. W.....	Orangeburg.
Dantzler, S. F.....	Orangeburg.
Doten, J. L.....	Charleston.
Duff, D. E.....	Spartanburg.
Dukes, J. F.....	Orangeburg.
Dunn, L. B.....	Abbeville.
Durant, J. A.....	Sumter.
Edwards, R. O.....	Abbeville.
Elder, M. L.....	York.
Epperson, W. J.....	Sumter.
Fairey, L. W.....	Orangeburg.
Farmer, J. E.....	Anderson.
Felder, F. W.....	Orangeburg.
Ford, D. G. H.....	Spartanburg.
Garner, G. L.....	Darlington.
Geiger, G. F.....	Lexington.
Gibert, A. E.....	Abbeville.
Gibert, J. F.....	Abbeville.
Goggans, D. W.....	Edgefield.
Goodwin, J. P.....	Laurens.
Gramling, J. E.....	Orangeburg.
Grant, J. G.....	Marlboro.
Gray, W. C.....	Hampton.
Gresham, W. A.....	Greenville.
Hardin, D. E.....	Chester.
Harvin, L. L.....	Clarendon.
Haseldon, E. W. Jr.....	Georgetown.
Hastings, W. R.....	Edgefield.
Heffron, C. J.....	Charleston.
Henderlite, C. N.....	Barnwell.
Hodge, H. A.....	Clarendon.
Hodges, W. W.....	Orangeburg.
Hook, W. N.....	Orangeburg.
Hough, D. K.....	Kershaw.
Howze, W. K.....	Union.
Jervey, H. L.....	Charleston.
Jervey, T. D.....	Charleston.
Johnson, S. P.....	Laurens.
Keels, I. A.....	Sumter.
Killingsworth, J. M.....	Barnwell.
Knight, W. E.....	Greenville.
Ladd, C. M.....	Fairfield.
Langston, W. A.....	Edgefield.



Lanier, O. M.....	Abbeville.
Lay, J. T.....	Oconee.
Lee, J. T.....	Abbeville.
Lewis, J. E.....	Oconee.
Linder, W. L.....	Union.
Lipscomb, J. W.....	Spartanburg.
Lofton, J. S.....	Charleston.
Lomax, S. J. T.....	Abbeville.
Long, W. H.....	Fairfield.
Lowrey, A. J.....	Oconee.
Lybrand, W. E.....	Lexington.
Martin, C. B.....	Spartanburg.
Mathis, A. J.....	Barnwell.
Mathis, W. G.....	Barnwell.
Mattison, J.....	Anderson.
Mauldin, P. O.....	Greenville.
Meares, W. P.....	Pickens.
Mellard, W. D.....	Colleton.
Middleton, R. H.....	Edgefield.
Miller, J. R.....	Spartanburg.
Mitchell, J. H.....	Spartanburg.
Moorer, L. A.....	Orangeburg.
Moorhead, L. J.....	Abbeville.
Morrison, J. B.....	Berkeley.
Murph, T. H.....	Orangeburg.
McAllister, W. C.....	Abbeville.
McCaskill, D. M.....	Kershaw.
McClure, J. F.....	Anderson.
McDowell, W. C.....	Kershaw.
McGougan, D. F.....	Horry.
McLees, W. F.....	Anderson.
McLendon, R.....	Darlington.
McMillin, R. C.....	Spartanburg.
Norris, A. P.....	Greenville.
Nowell, J. R.....	Abbeville.
Nunnamaker, A. S.....	Lexington.
Orvin, M. C.....	Berkeley.
Owens, A.....	Marion.
Page, F. M.....	Marion.
Parks, J. A.....	Spartanburg.
Parks, J. H.....	Greenville.
Parler, C.....	Colleton.
Partlow, B. P.....	Edgefield.
Pipkin, H. O.....	Williamsburg.



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Pratt, J. H.....	Abbeville.
Price, M. N.....	Aiken.
Ready, J. M.....	Aiken.
Richey, H. A.....	Pickens.
Rickenbaker, O. H.....	Orangeburg.
Rodgers, W. Z.....	Marlboro.
Rutledge, S. G.....	Kershaw.
Sanders, J. O.....	Anderson.
Sawyer, G. S.....	Aiken.
Shealy, A. S.....	Edgefield.
Shuler, D. W.....	Orangeburg.
Simpson, T. S.....	Anderson.
Singletary, L. S.....	Williamsburg.
Sitton, J. B.....	Oconee.
Skelton, S. T.....	Anderson.
Smith, A. M.....	Newberry.
Smith, H. G.....	Oconee.
Smith, M. B.....	Abbeville.
Smith, M. H.....	Greenville.
Smith, R. M.....	Darlington.
Smith, W. H.....	Colleton.
Smith, W. R.....	Newberry.
Smyly, J. W.....	Colleton.
Sonntag, C. G.....	Barnwell.
Stacy, R.....	Spartanburg.
Steele, R. L.....	Fairfield.
Stewart, C. A.....	Newberry.
Stribling, J. C.....	Anderson.
Stribling, J. H.....	Anderson.
Stuckey, J. W.....	Darlington.
Stukes, J. F.....	Sumter.
Sullivan, J. O.....	Oconee.
Swett, W. N.....	Chesterfield.
Tate, L. E.....	Anderson.
Tatum, T. H.....	Orangeburg.
Thomas, L. P.....	Union.
Tolbert, G. R.....	Abbeville.
Toole, D. L.....	Aiken.
Toole, J. W.....	Aiken.
Turner, T. H.....	Barnwell.
Wall, A. L.....	Barnwell.
Wallace, J. P.....	Marlboro.
Warnock, J. E.....	Pickens.
Watson, L. E.....	Abbeville.



Watson, L. V.....	Anderson.
Watts, J. R.....	Newberry.
Way, A. S.....	Orangeburg.
Wells, F. G.....	Charleston.
Welsh, J. T.....	Chesterfield.
Williams, E. H.....	Newberry.
Williams, J. R.....	Edgefield.
Wilson, E. P.....	Chesterfield.
Wise, R. M.....	Barnwell.
Wofford, T. L.....	Spartanburg.
Woodside, A. L.....	Greenville.
Young, J. L.....	Laurens.





## Lower Preparatory Class.

Name.	County.
Abernathy, W. L.....	York.
Acker, E. H.....	Anderson.
Anderson, J. R.....	Pickens.
Avinger, W. H.....	Berkeley.
Barmore, W. E.....	Abbeville.
Bannister, T. J.....	Marion.
Bell, W. A.....	Abbeville.
Bishop, B. T.....	Newberry.
Blakely, H. L.....	Laurens.
Blakeney, H. R.....	Chesterfield.
Blakeney, J. T.....	Chesterfield.
Boazman, J. B.....	Newberry.
Boggs, J. C.....	Pickens.
Boggs, W. H.....	Pickens.
Bolick, R. Y.....	Fairfield.
Brown, C. C.....	Chester.
Browning, C. M.....	Barnwell.
Browning, W. M.....	Barnwell.
Bruce, J. R.....	York.
Bruce, R. C.....	Kershaw.
Bryant, J. H.....	Colleton.
Caldwell, C. L.....	Abbeville.
Calhoun, C. A.....	Abbeville.
Cannon, C. E.....	Greenville.
Cauthen, M. B.....	Lancaster.
Chamblee, D. F.....	Anderson.
Chreitzberg, H. R.....	Charleston.
Clyburn, L. T.....	Kershaw.
Clyburn, T. L.....	Lancaster.
Clyde, W. L.....	Pickens.
Cochran, R. B.....	Oconee.
Cooper, A. M.....	Spartanburg.
Corley, G. H.....	Edgefield.
Crouch, H. W., Jr.....	Charleston.
Dantzler, J. L.....	Orangeburg.
Davenport, J. G.....	Laurens.
Davis, T. H.....	Abbeville.



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Dennis, E. J.....	Berkeley.
Dodenhoff, J. B .....	Barnwell.
Draffin, S. W.....	York.
Drake, J. B.....	Anderson.
Drake, J. W.....	Anderson.
Dukes, B. A.....	Orangeburg.
*Dukes, J. H.....	Orangeburg.
Dubose, J. H.....	Darlington.
Earle, P. R.....	Anderson.
Eckel, A. W.....	Charleston.
Eidson, A. L.....	Aiken.
Etheredge, J. T .....	Lexington.
Fairey, G. W.....	Orangeburg.
Fairey, J. C.....	Orangeburg.
Farr, S. E.....	Greenville.
Foster, W. A.....	Spartanburg.
Floyd, W. T.....	Lancaster.
Gantt, M. W.....	Spartanburg.
Geiger, H. K.....	Lexington.
Gibert, C. S .....	Abbeville.
Gillespie, W. L.....	Marlboro.
Graham, R. C.....	Charleston.
Gilmer, J. C.....	Anderson.
Goodson, L. J.....	Barnwell.
Grant, E. D .....	Marlboro.
Grant, H. M.....	Chester.
Gray, J. D .....	Hampton.
Gray, J. J.....	Hampton.
Green, J. E.....	Clarendon.
Greene, J. G.....	Aiken.
Haithcock, D. M .....	Richland.
Haltiwanger, H. A.....	Edgefield.
Harleston, F. H.....	Charleston.
Hartzog, A. S.....	Barnwell.
Hatton, T. M.....	Laurens.
Hendricks, L. L.....	Pickens.
Holloway, J. L.....	Newberry.
Hough, I. C .....	Kershaw.
Hough, S. M.....	Kershaw.
Hunter, H. M.....	Pickens.
Hunter, R. H .....	Berkeley.
Hinson, G. W.....	Lancaster.

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\* Deceased.



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Huffman, J. H.....	Lexington.
Ingram, S F.....	Chesterfield.
Ingram, T. L.....	Chesterfield.
Jackson, C. J.....	Sumter.
James, L. A.....	Sumter.
Jeffcoat, M.....	Lexington.
Jeter, T. C.....	Union.
Johnson, J. M.....	Edgefield.
Jordan, H. E.....	Horry.
Keller, I. L.....	Abbeville.
King, G. B.....	Abbeville.
King, S. P.....	Oconee.
Kinsler, J. H.....	Richland.
Langford, C.....	Fairfield.
Legare, C. G.....	Charleston.
Lenoir, J. N.....	Sumter.
Leslie, T.....	Greenville.
Lewis, E. E.....	Oconee.
Lewis, F. A.....	Oconee.
Lewis, G. P.....	Oconee.
Lockwood, S. L.....	Charleston.
Lucas, W. H.....	Chester.
Lunney, R. J.....	Darlington.
Mappus, W. T.....	Charleston.
Meares, J. R.....	Pickens.
Messervy, W. T.....	Charleston.
Miller, J. L.....	Laurens.
Mims, P. V.....	Darlington.
Moorer, M. P.....	Colleton.
Mitchum, M. W.....	Berkeley.
McAllister, H. R.....	Abbeville.
McCarley, J. D.....	Richland.
McCarrell, V. W.....	Greenville.
McClure, C. M.....	Anderson.
McCord, E. M.....	Abbeville.
McCown, H. D.....	Florence.
McDaniel, J. J.....	Chester.
McDavid, J. A.....	Greenville.
McKenzie, W. N.....	Darlington.
McKeown, J. S.....	Chester.
McKown, J. G.....	York.
McPhail, J. A.....	Anderson.
Nettles, E. W.....	Sumter.
Nunnamaker, B. H.....	Lexington.



Oetgen, E. O .....	Charleston.
Parson, A. B.....	Laurens.
Pegues, E. S.....	Marlboro.
Pegues, W. L.....	Marlboro.
Reid, E. G. R.....	Barnwell.
Sartor, W. D .....	Union.
Saylor, W. L.....	Lexington.
Scales, L .....	Union.
Scarborough, H. S.....	Darlington.
Scacborough, R. J.....	Darlington.
Seastrunk, J. J.....	Lexington.
Seats, A. H.....	Richland.
Severance, J. W.....	Florence.
Shider, W. D.....	Colleton.
Simmons, Y.....	Charleston.
Singletary, E. M.....	Williamsburg.
Sitton, J. M.....	Anderson.
Sloan, S. M.....	Oconee.
Smith, H. B.....	Anderson.
Smith, W. R.....	Abbeville.
Spires, E. S.....	Orangeburg.
Stack, N.....	Richland.
Stevenson, E. B .....	Fairfield.
Stone, J. A.....	Edgefield.
Swearingen, W. E.....	Abbeville.
Taylor, J. H.....	Greenville.
Taylor, T. L.....	Abbeville.
Thomas, J.....	Colleton.
Thornton, C. N.....	Abbeville.
Tittle, A.....	Abbeville.
Toole, D. L.....	Aiken.
Vaught, E. A .....	Marion.
Verdin, C. S.....	Greenville.
Watkins, J. B.....	Greenville.
Welsh, W. B.....	Lancaster.
Whatley, J. R.....	Abbeville.
Whetsell, J. D.....	Orangeburg.
White, J. D.....	Sumter.
Whiten, J. A.....	Pickens.
Wilder, B. F .....	Sumter.
Williams, G. G.....	Orangeburg.
Wood, M. E.....	Greenville.
Yoe, W. S.....	Abbeville.



# Military Organization.

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## COLONEL OF THE REGIMENT AND COMMANDANT OF CADETS.

Lieutenant T. Q. DONALDSON, Jr., Seventh U. S. Cavalry.

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### FIRST BATTALION.

Major E. M. BLYTHE.

### SECOND BATTALION.

Major A. SHANKLIN.

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### COMMISSIONED STAFF.

A. M. CHREITZBERG, Cadet Lieutenant and Adjutant.

M. L. SIFLY, Cadet Lieutenant and Quartermaster.

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### NON COMMISSIONED STAFF.

J. H. MOORE, Cadet Sergeant Major.

E. M. DUPRE, Cadet Q. M. Sergeant.

R. I. WOODSIDE, Cadet Color Sergeant.

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### COMPANY A.

R. E. Lee,.....Captain.

R. H. Welch,.....1st Lieutenant.

J. G. Simpson, .....2d Lieutenant.

J. L. Briggs,.....1st Sergeant.

### SERGEANTS.

G. P. Boulware,  
P. G. Langley,

A. F. Foster,  
B. F. Robertson.



CORPORALS.

C. B. Dowling,  
J. B. Smith,  
W. Waters,

R. W. Nichols,  
T. R. Vogel.

COMPANY B.

O. M. Pegues,.....Captain.  
C. M. Furman,.....1st Lieutenant.  
H. J. Rawl,.....2d Lieutenant.  
G. G. Steele,.....1st Sergeant.

SERGEANTS.

W. R. Fitts,  
V. P. Bowers,

R. G. Hamilton,  
B. M. Aull.

CORPORALS.

H. J. Hammett,  
W. G. Peterkin,  
G. H. Swygert,

J. R. Inman,  
C. H. Stubbs.

COMPANY C.

W. L. Felder,.....Captain.  
W. W. Wardlaw,.....1st Lieutenant.  
B. R. Tillman, Jr.,.....2d Lieutenant.  
O. F. Speck,.....1st Sergeant.

SERGEANTS.

C. H. Snider,  
R. D. Young,

E. P. Earle,  
J. B. Wiggins.

CORPORALS.

W. T. Brock,  
J. E. Pickett,  
J. E. Taylor,

R. W. Collins,  
J. Sprott.

COMPANY D.

I. M. Mauldin,.....Captain.  
D. L. Smith,.....1st Lieutenant.  
L. E. Dean,.....2d Lieutenant.  
J. S. Fair,.....1st Sergeant.



## SERGEANTS.

J. G. Holloway,	F. L. Bryant,
P. O. Stribling,	A. J. Tindal.

## CORPORALS.

C. Burriss,	F. N. Jones,
P. W. Moore,	J. B. Scurry.
W. Walter,	

## COMPANY E.

W. H. Carpenter,	Captain.
T. S. Moorman,	1st Lieutenant.
W. W. Klugh,	2d Lieutenant.
T. H. Tuten,	3d Lieutenant.
S. T. Carter,	1st Sergeant.

## SERGEANTS.

B. Doar,	J. T. Bradley,
G. W. Hart,	J. H. Hook.

## CORPORALS.

J. E. Brogdon,	J. S. Garriss,
W. P. Parks,	J. P. Quarles.
R. S. Smith,	

## COMPANY F.

H. G. Cliff,	Captain.
C. D. Napier,	Supernumerary Captain.
F. G. Tompkins,	1st Lieutenant.
L. A. Sease,	2d Lieutenant.
T. W. Cothran,	1st Sergeant.

## SERGEANTS.

P. H. Gooding,	A. F. Dunn,
E. P. Brown,	E. H. Everett.

## CORPORALS.

W. T. Ellerbe,	J. G. Evans,
W. H. Glenn,	E. E. Rosborough.
J. C. Self,	

Included in the above organization is a cadet band of fifteen pieces.

Cadet Drum Major, J. E. Edwards.